

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P237094

Luminaire Tested: **ARCH-L-AF72-210-D-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-210-D-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25744.6 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

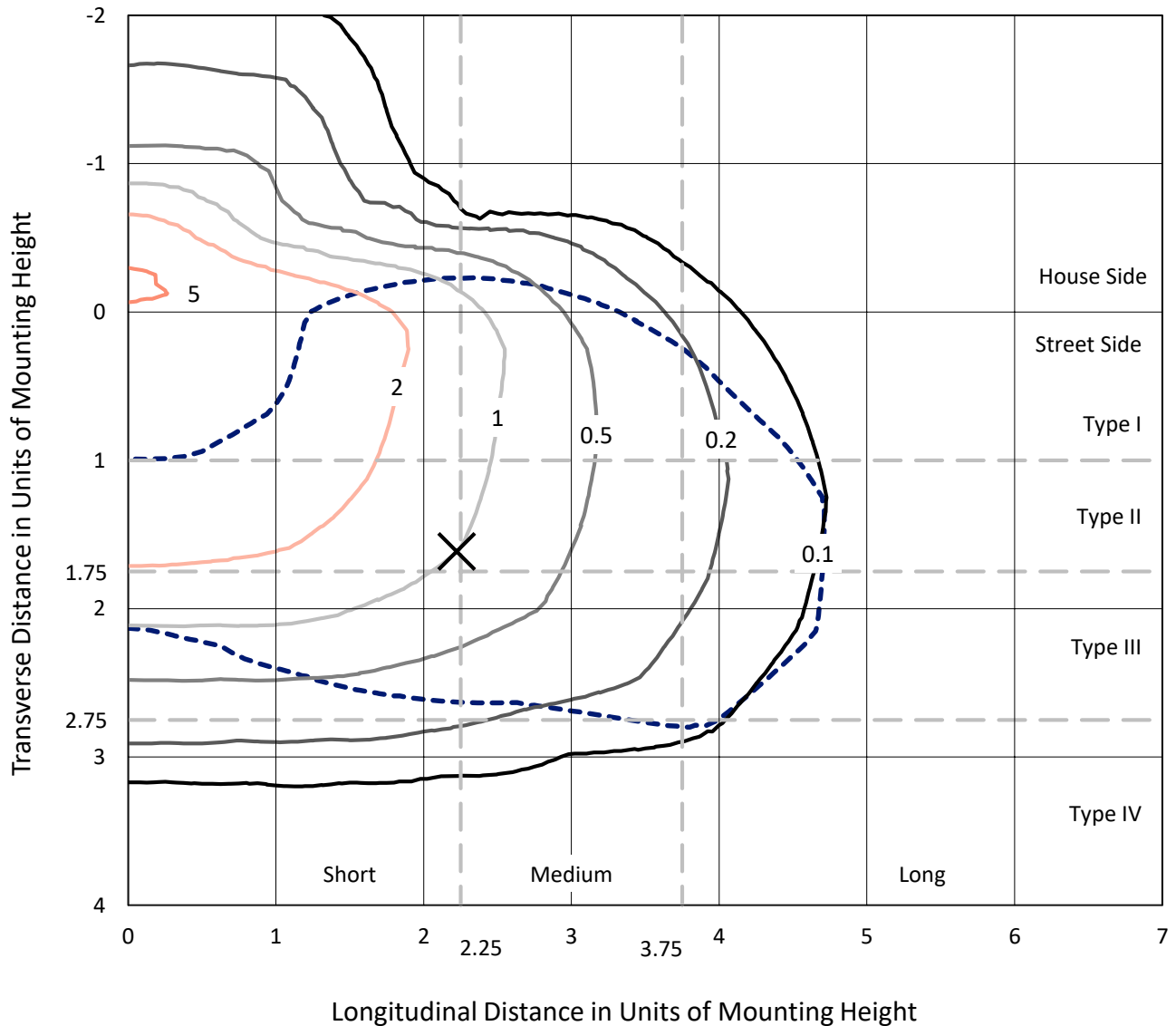


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

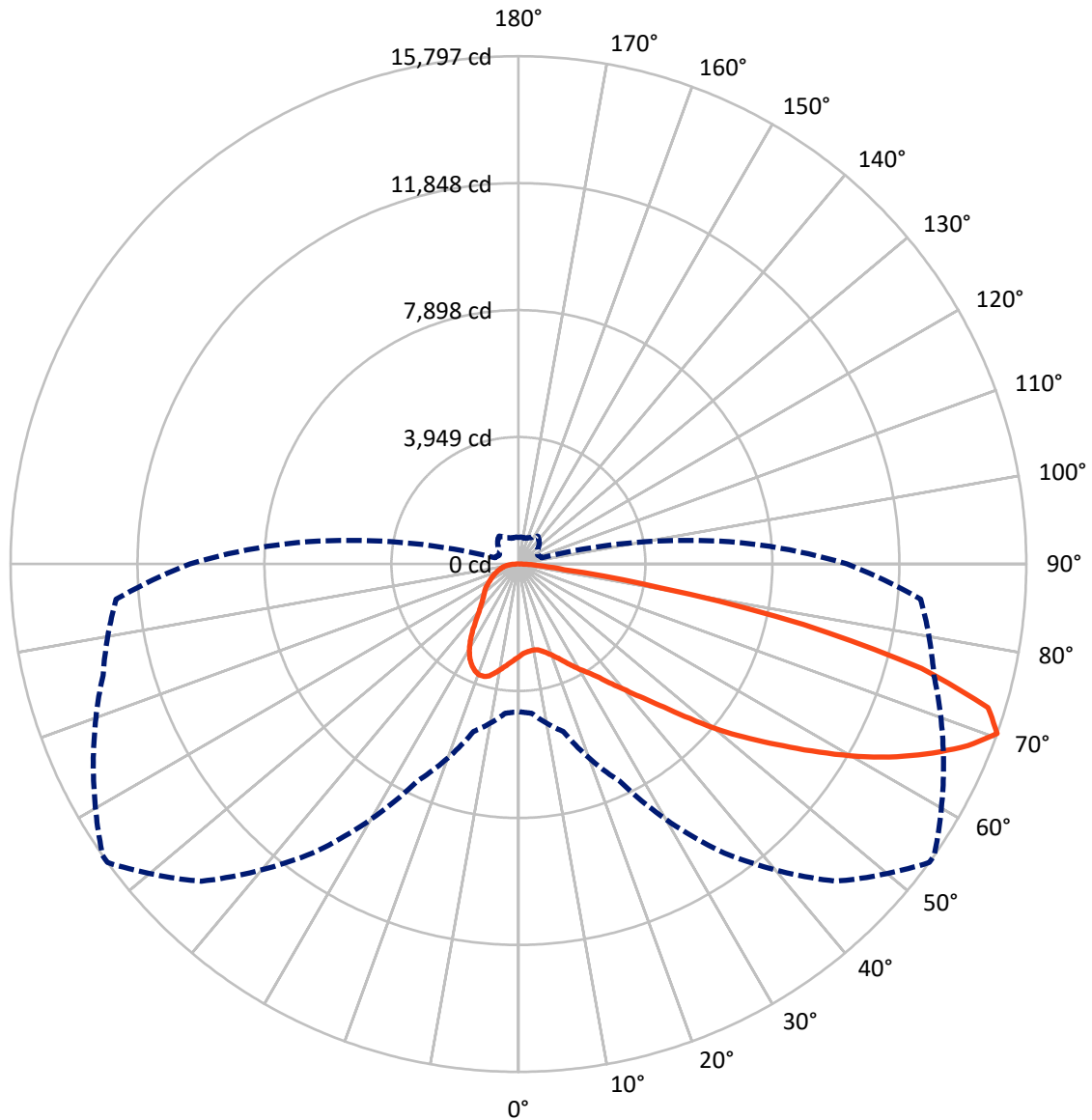


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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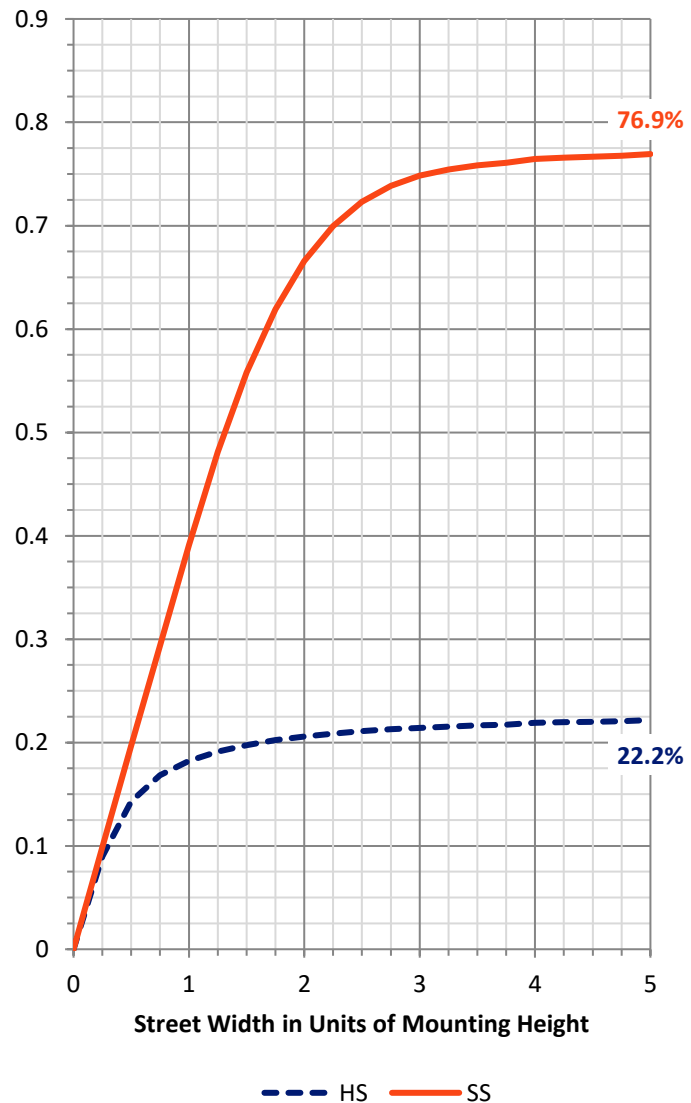
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5838.8	0.0	5838.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	19905.8	0.0	19905.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	25744.6	0.0	25744.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.7	1.1
10°-20°	903.2	3.5
20°-30°	1569.2	6.1
30°-40°	2293.1	8.9
40°-50°	3599.0	14.0
50°-60°	5534.4	21.5
60°-70°	6761.7	26.3
70°-80°	4192.3	16.3
80°-90°	609.0	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25744.6	100.0
0°-180°	25744.6	100.0

Coefficient of Utilization



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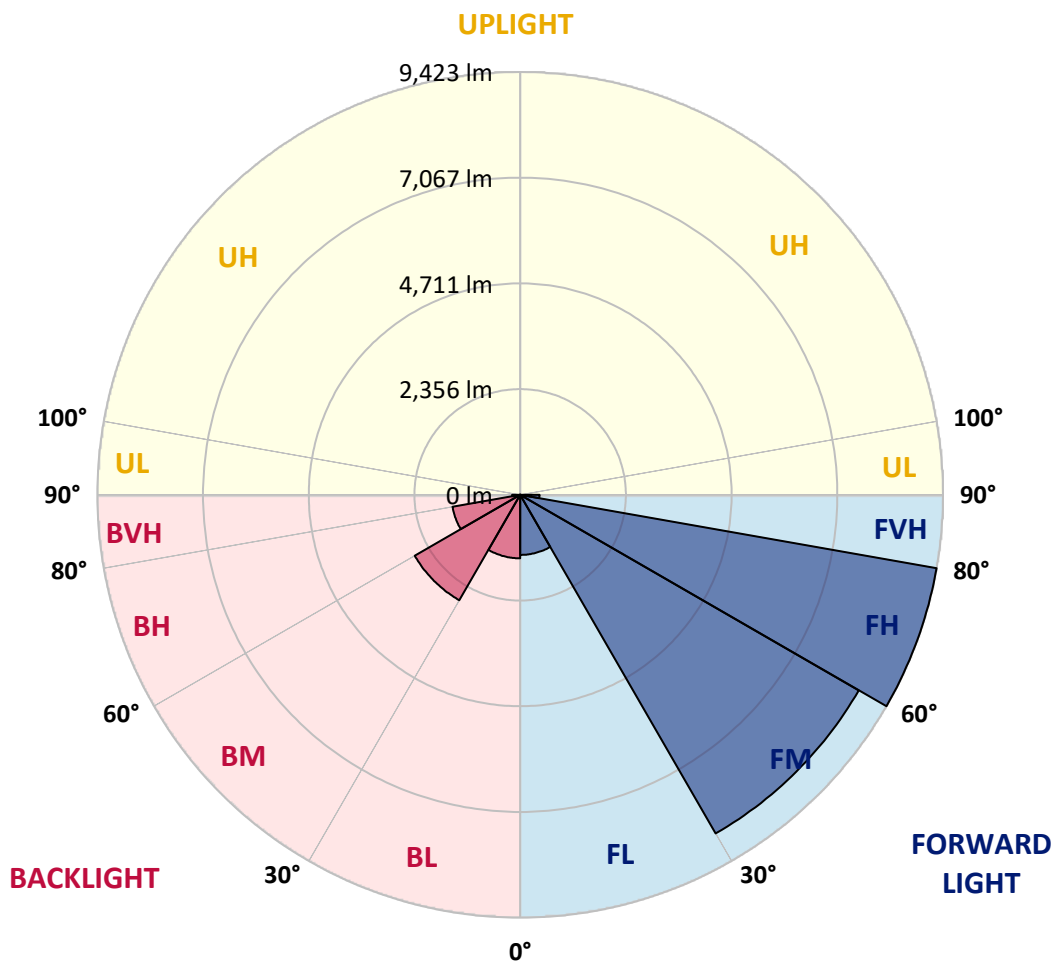
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1339.5	5.2			
FM	(30°-60°)	8713.4	33.8			
FH	(60°-80°)	9422.9	36.6			G4/12000
FVH	(80°-90°)	430.0	1.7			G3/500
BL	(0°-30°)	1415.5	5.5	B3/2500		
BM	(30°-60°)	2713.2	10.5	B3/5000		
BH	(60°-80°)	1531.1	5.9	B3/2500		G3/2500
BVH	(80°-90°)	179.0	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3
2.5°	2767.2	2757.8	2757.8	2771.9	2776.6	2790.7	2790.7	2795.4	2809.6	2833.2	2861.4
5°	2682.3	2677.6	2682.3	2701.2	2710.6	2738.8	2748.3	2753.1	2781.3	2819.0	2861.4
7.5°	2597.5	2592.8	2602.2	2630.4	2658.8	2701.2	2724.7	2729.4	2771.9	2823.8	2880.3
10°	2569.1	2564.4	2578.6	2602.2	2630.4	2677.6	2715.3	2720.0	2781.3	2842.6	2922.8
12.5°	2606.9	2602.2	2616.3	2639.9	2668.2	2701.2	2743.6	2748.3	2828.5	2908.6	2993.5
15°	2701.2	2701.2	2705.9	2720.0	2748.3	2776.6	2814.3	2819.0	2903.9	2998.2	3083.0
17.5°	2847.3	2837.9	2837.9	2833.2	2852.0	2866.2	2913.3	2918.0	3007.6	3092.5	3177.3
20°	3026.4	3021.7	3002.9	2979.3	2974.5	2984.0	3031.1	3035.9	3125.4	3196.1	3276.3
22.5°	3243.3	3248.0	3205.6	3153.8	3130.1	3144.2	3186.7	3191.4	3257.4	3318.8	3389.4
25°	3530.8	3516.7	3455.4	3380.0	3332.9	3332.9	3375.3	3375.3	3436.6	3474.2	3521.4
27.5°	3804.3	3776.0	3719.4	3611.0	3535.5	3549.7	3592.1	3592.1	3648.7	3662.9	3686.4
30°	4101.2	4073.0	4002.3	3865.5	3766.5	3757.1	3809.0	3804.3	3879.6	3874.9	3856.1
32.5°	4464.3	4450.0	4332.2	4157.8	4025.8	3992.8	4039.9	4044.6	4091.8	4077.7	4016.4
35°	4973.4	4968.7	4860.2	4553.8	4379.4	4318.1	4346.4	4346.4	4379.4	4341.7	4238.0
37.5°	5614.5	5623.9	5529.7	5077.1	4831.9	4728.2	4732.9	4728.2	4737.7	4695.2	4586.8
40°	6255.5	6279.2	6274.5	5727.6	5416.5	5237.3	5171.3	5161.9	5185.4	5166.6	5062.9
42.5°	7099.4	7156.0	7024.0	6529.0	6180.2	5878.5	5699.3	5675.7	5727.6	5751.1	5652.2
45°	7976.3	7957.3	7750.0	7391.6	7075.9	6689.3	6349.9	6312.1	6349.9	6420.6	6316.8
47.5°	8433.5	8419.3	8367.5	8188.3	8141.3	7698.1	7184.3	7151.2	7080.6	7179.6	7056.9
50°	9187.7	9201.9	8989.8	8970.9	9168.9	8923.7	8127.0	8051.6	7924.4	8004.5	7900.8
52.5°	9734.6	9673.3	9541.3	9706.3	10323.8	10191.9	9013.3	8980.3	8862.4	8843.6	8796.5
55°	9956.2	9956.2	9979.7	10361.6	11243.0	11068.6	9975.0	10007.9	9847.7	9715.7	9777.0
57.5°	10022.2	10050.4	10253.1	10884.8	12322.6	11752.2	11035.7	11082.8	10851.8	10587.8	10781.1
60°	9696.9	9781.7	10267.3	11181.8	12930.7	12478.2	12152.9	12167.1	11832.4	11445.8	11785.2
62.5°	8862.4	8966.2	9833.5	11304.3	12831.7	13223.0	13208.9	13241.9	12784.5	12303.7	12728.0
65°	7839.5	7943.2	8867.1	10960.2	12756.3	13755.7	14175.2	14264.8	13675.5	13029.7	13317.3
67.5°	6335.7	6472.4	7349.3	9800.6	12388.5	14194.1	15080.3	15174.7	14363.8	13406.8	13265.4
70°	4591.5	4657.5	5392.9	7448.2	10889.5	13953.7	15796.9	15792.1	14590.0	13378.6	12558.3
72.5°	2210.9	2262.8	2899.1	4624.6	7787.6	11841.8	15278.3	15367.9	14279.0	12968.5	10941.4
75°	909.8	961.7	1173.8	1951.6	4087.1	7825.4	12949.5	13161.7	12968.5	11639.0	8560.8
77.5°	565.7	584.5	688.2	1008.8	1866.8	3653.4	9065.2	9352.7	10276.7	9324.4	5652.2
80°	424.2	438.4	513.8	707.1	1178.5	1348.2	4501.9	4864.9	6227.3	5350.4	2559.7
82.5°	353.5	358.2	410.1	513.8	801.4	773.1	1442.5	1607.5	2903.9	2041.2	881.6
85°	330.0	339.4	367.6	367.6	509.1	485.6	598.7	627.0	843.8	697.7	306.4
87.5°	169.7	160.3	325.3	287.6	264.0	235.7	254.5	273.4	315.9	334.7	136.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3
2.5°	2870.9	2885.0	2908.6	2932.2	2960.4	2993.5	3012.3	3035.9	3054.7	3045.3	3040.6
5°	2885.0	2908.6	2960.4	3007.6	3064.1	3130.1	3172.6	3219.7	3257.4	3266.9	3252.7
7.5°	2908.6	2951.0	3021.7	3106.6	3182.0	3266.9	3332.9	3398.9	3446.0	3455.4	3455.4
10°	2965.1	3012.3	3106.6	3219.7	3309.2	3398.9	3474.2	3526.1	3568.6	3587.4	3587.4
12.5°	3045.3	3101.9	3215.0	3351.7	3450.7	3535.5	3578.0	3601.6	3620.4	3639.2	3644.0
15°	3139.5	3200.8	3337.6	3483.7	3587.4	3629.8	3629.8	3625.1	3625.1	3634.5	3644.0
17.5°	3233.9	3299.8	3441.3	3596.8	3662.9	3639.2	3606.3	3592.1	3582.7	3578.0	3592.1
20°	3332.9	3398.9	3540.2	3686.4	3667.6	3568.6	3521.4	3488.5	3460.1	3446.0	3464.8
22.5°	3441.3	3502.6	3648.7	3747.7	3606.3	3455.4	3365.8	3314.0	3266.9	3238.6	3257.4
25°	3568.6	3629.8	3771.3	3766.5	3497.9	3285.7	3144.2	3059.4	3007.6	2979.3	2979.3
27.5°	3719.4	3771.3	3908.0	3719.4	3347.0	3059.4	2852.0	2771.9	2757.8	2734.1	2734.1
30°	3874.9	3917.4	4035.2	3611.0	3139.5	2762.5	2536.2	2498.5	2503.2	2479.6	2484.3
32.5°	4035.2	4077.7	4110.6	3450.7	2870.9	2427.8	2276.9	2248.7	2243.9	2225.0	2206.2
35°	4261.5	4322.8	4120.1	3233.9	2545.6	2149.6	2041.2	2012.9	1984.6	1918.6	1918.6
37.5°	4605.6	4671.6	4096.5	2965.1	2210.9	1932.8	1833.7	1796.1	1748.9	1683.0	1659.3
40°	5077.1	5077.1	4044.6	2663.5	1942.2	1758.4	1664.0	1617.0	1565.1	1499.0	1484.9
42.5°	5633.3	5501.3	3964.5	2357.1	1744.2	1640.5	1555.6	1503.8	1442.5	1367.1	1357.7
45°	6283.9	5925.5	3851.4	2083.6	1598.1	1569.8	1518.0	1428.3	1324.6	1244.5	1230.4
47.5°	6915.6	6307.4	3743.0	1890.3	1475.5	1541.5	1499.0	1348.2	1206.8	1093.6	1079.5
50°	7608.5	6646.8	3615.7	1730.1	1381.2	1522.7	1475.5	1230.4	1074.8	994.7	985.2
52.5°	8301.5	6990.9	3479.0	1560.4	1301.1	1484.9	1418.9	1145.5	1070.1	961.7	947.6
55°	9032.1	7391.6	3318.8	1371.8	1206.8	1409.5	1343.5	1140.8	1103.0	961.7	928.6
57.5°	9744.0	7834.8	3059.4	1188.0	1103.0	1296.4	1315.2	1112.6	1032.4	952.3	914.5
60°	10531.3	8306.2	2630.4	1032.4	1013.5	1202.1	1277.6	1051.3	952.3	923.9	905.1
62.5°	11163.0	8730.5	2055.3	923.9	938.1	1126.7	1230.4	1013.5	919.2	895.7	891.0
65°	11436.4	8739.9	1475.5	829.7	862.7	1056.0	1183.2	980.5	891.0	881.6	876.8
67.5°	11148.8	8259.1	1037.1	740.1	782.6	989.9	1122.0	947.6	862.7	867.4	857.9
70°	10220.1	7245.6	758.9	655.3	707.1	919.2	1056.0	905.1	829.7	839.1	825.0
72.5°	8551.4	5647.5	608.1	584.5	645.8	843.8	989.9	857.9	777.9	782.6	754.2
75°	6316.8	3743.0	509.1	523.2	575.1	773.1	905.1	796.7	721.3	702.4	683.5
77.5°	3757.1	1923.4	419.5	457.3	513.8	688.2	810.8	721.3	660.0	627.0	612.8
80°	1550.9	777.9	344.1	386.6	447.8	612.8	716.6	631.7	589.2	556.3	537.4
82.5°	617.6	381.9	273.4	315.9	377.2	532.7	627.0	556.3	513.8	490.3	438.4
85°	235.7	188.5	183.8	221.6	282.8	410.1	518.5	466.7	433.7	372.5	358.2
87.5°	94.3	84.8	84.8	108.4	160.3	259.3	372.5	325.3	339.4	268.7	273.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)